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NOTICE OF ALLOWANCE AND FEE(S) DUE

22850

7590

03/29/2004

OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314 EXAMINER

PALMER, PHAN T H

ART UNIT PAPER NUMBER

2874

DATE MAILED: 03/29/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/741,824	12/22/2000	Kazuhisa Kashihara	198334US2	8802

TITLE OF INVENTION: ARRAYED WAVEGUIDE GRATING TYPE OPTICAL MULTIPLEXER/DEMULTIPLEXER AND OPTICAL WAVEGUIDE CIRCUIT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	06/29/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- □ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (703) 746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

22850 7:	590 03/29/2004 K, MCCLELLAND,	with any corrections or use Block 1) MAIER & NEUSTAI	Fee(s) Transmittal. papers. Each addition have its own certific	of mailing can only be used in this certificate cannot be used an all paper, such as an assignmate of mailing or transmission. Certificate of Mailing or Tranthis Fee(s) Transmittal is beine with sufficient postage for fill lail Stop ISSUE FEE address. SPTO, on the date indicated be	for any other accompanying nent or formal drawing, must	
·					(Depositor's name)	
					(Signature)	
					(Date)	
APPLICATION NO.	FILING DATE	FIRST NAME	ED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/741,824	12/22/2000	Kazuhisa	Kashihara	198334US2	8802	
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nonprovisional	NO	\$1330	\$300	\$1630	06/29/2004	
EXAM	MINER	ART UNIT	CLASS-SUBCLASS	7		
PALMER,	PHAN T H	2874	385-037000	_		
Address form PTO/SB/1 O "Fee Address" indicate PTO/SB/47; Rev 03-02 Number is required. 3. ASSIGNEE NAME AND	ion (or "Fee Address" Indica or more recent) attached. Us D RESIDENCE DATA TO B an assignee is identified be ed to the USPTO or is being	Correspondence tion form e of a Customer attorneys will be properly to the properly of the pro	T (print or type)	e of a single d attorney or istered patent ted, no name 3 assignee data is only appropr OT a substitute for filing an assignee as a substitute assignee as a substitute as a subs	iate when an assignment has signment.	
Please check the appropriate	e assignee category or catego	ories (will not be printed on the	patent); 🖸 individual 🕻	corporation or other private g	group entity	
4a. The following fee(s) are	enclosed:	4b. Payment of	f Fee(s):	·	<u> </u>	
☐ Issue Fee		☐ A check	☐ A check in the amount of the fee(s) is enclosed.			
☐ Publication Fee			☐ Payment by credit card. Form PTO-2038 is attached.			
☐ Advance Order - # of	Copies	The Dire Deposit Acc	ector is hereby authorized by count Number	charge the required fee(s), or (enclose an extra	credit any overpayment, to copy of this form).	
Director for Patents is reque	sted to apply the Issue Fee a	nd Publication Fee (if any) or to				
(Authorized Signature)		(Date)				
other than the applicant;	d Publication Fee (if requir a registered attorney or ag cords of the United States Pa	ed) will not be accepted from ent; or the assignee or other atent and Trademark Office.	anyone party in			
application. Confidentially estimated to take 12 minu completed application for case. Any comments on suggestions for reducing the Patent and Trademark (22313-1450. DO NOT SEND TO: Commissioner Under the Paperwork Re	y is governed by 35 U.S.C. It tes to complete, including g m to the USPTO. Time wi the amount of time you this burden, should be sent Office, U.S. Department SEND FEES OR COMPLE for Patents, Alexandria, Vir	persons are required to respon	ection is titing the dividual and/or er, U.S. Virginia DRESS.			



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1940 DUKE ST	REET		ART UNIT	PAPER NUMBER
ALEXANDRIA, VA 22314		2874		
			DATE MAILED: 03/29/200	4

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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	Application No. Applicant(s)				
	09/741,824	KASHIHARA ET AL.			
Notice of Allowability	Examiner	Art Unit			
	PHAN T.H. PALMER	2874			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.					
1. X This communication is responsive to 02/09/2004.					
2. The allowed claim(s) is/are <u>1-45</u> .	2. 🔀 The allowed claim(s) is/are <u>1-45</u> .				
3. \square The drawings filed on $___$ are accepted by the Examine	:				
 3.					
	•	·			
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. ☐ Interview Summary Paper No./Mail Date 8), 7. ☐ Examiner's Amendre	e ´´			

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Art Unit: 2874

REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance: the claims are allowable over prior art of record (Amersfoort et al. 5,629,992), because Amersfoort et al reference does not disclose the underline limitation of an optical waveguide comprising:

- a single mode waveguide;
- a multi-mode waveguide configured to realize multi-mode and connected to said single mode waveguide, said multi-mode waveguide being a multi-mode broadening waveguide having a width, which increases toward a direction of light propagation.

The Amersfoort et al. reference discloses a multimode waveguide, which has a constant width, cannot broaden a multi-mode area.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

CONTACT INFORMATION

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to PHAN T.H. PALMER whose telephone number is (571) 272-2354. The examiner can normally be reached on 4/4 OFF MONDAY.

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Art Unit: 2874

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, RODNEY B. BOVERNICK can be reached on (571) 272-2344. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PTHP 03/17/04

PHAN T. H. PALMER PRIMARY EXAMINER